AMENDMENTS TO THE CLAIMS

Please cancel claims 2-8, as set forth in the listing of claims that follows:

1-8. (Cancelled)

9. (Previously Presented) A method for compensating for variation in electrical resistance in a solenoid coil during pulse-width cyclic operation thereof between energized and de-energized states, comprising the steps of:

a) providing means for determining when said coil is in said de-energized state;

b) passing an electrical current of known amperage through said coil when said coil is in said de-energized state;

c) measuring voltage drop across said coil during said passing of said current;

d) calculating said electrical resistance from said amperage and said voltage drop, using Ohm's Law;

e) selecting a nominal resistance for said coil;

f) comparing said calculated electrical resistance to said nominal resistance to determine a resistance deviation from nominal; and

g) adjusting said pulse width operation to change the respective lengths of said energized and de-energized states to compensate for said resistance deviation.

10. (Original)A method in accordance with Claim 9 wherein said coil is disposed in a fuel injector, and wherein said adjusting step results in a change in fuel flow through said fuel injector.

11. (Original) A method in accordance with Claim 9 wherein said means for determining includes an electronic circuit.

12. (Original) A method in accordance with Claim 11 wherein said electronic circuit comprises a current control circuit, an enable measurement circuit, and an injector voltage measurement circuit.

13. (Original) A method in accordance with Claim 12 wherein said electronic circuit further comprises a snubber circuit across said solenoid coil.

14. (Original) A method in accordance with Claim 13 wherein said electronic circuit further comprises a voltage regulator.

15. (Previously Presented) An internal combustion engine, comprising:

a) at least one fuel injector for injecting fuel into said engine, said fuel injector including an electric solenoid having a coil;

b) pulse-width control means for controlling operation of said fuel injector by controlling the lengths of respective periods of energized and de-energized states of said coil; and

c) electronic means for controlling said pulse-width means, comprising:

means for determining when said coil is in said de-energized state,

means for passing an electrical current of known amperage through said coil when said coil is in said de-energized state,

means for measuring voltage drop across said coil during said passing of said current,

means for calculating said electrical resistance from said amperage and said voltage drop, using Ohm's Law,

means for selecting a nominal resistance for said coil,

means for comparing said calculated electrical resistance to said nominal resistance to determine a resistance deviation from nominal, and

means for adjusting said pulse width operation to change said respective lengths of said energized and de-energized states to compensate for said resistance deviation to provide for correct fuel flow through said fuel injector.